

Mitochondria & Cellular Respiration Insert

Mitochondria

Draw a detailed picture of the mitochondria label its parts.

1. Where are mitochondria found?
2. What is the overall goal of the mitochondria
3. Write the formula for the overall reaction?
4. What are the reactants that are needed by the mitochondria?
5. Once all the reactants are present, what process can take place? Explain the process.
6. What are the products that are produced from this reaction?
7. Where does each of the products go after they are produced?
8. What are the two major types of cellular respiration? What gas molecule determines which pathway it should go?
9. If the gas molecule is present, what are the 3 steps that take place?
 - a. Where does each step take place?
10. In the space below the picture describe what is happening in the picture. In a factory, what would the mitochondria be? Why? How does the mitochondria relate to the ecological cycles, internal systems, and the cell membrane?

